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As was mentioned previously, a thorough understanding and appreciation of the line of thought another is following, is conducive to a higher and more glorious sphere of usefulness. A glance at the leaders of our various realms of endeavors will fairly always yield the result that not least among the necessary qualifications is personality. In order to be able to influence others, to impress one's thoughts and ideas upon a greater and larger number of the community, just so much the more must the individual personality be important. If one have nothing in common with his associates, no matter how intensive his intellect, even though his light burn with the brilliancy of a thousand candle-power, it will be only as through a dense mist. To strive continually and only for the advancement of science may perhaps realize a noble ideal, but the individual as a human being will be sacrificed, and the fulfillment of a complete and full life will never be realized. No instructor for example, can present a message in the classroom unless he has a true appreciation of those whom he seeks to instruct. This true appreciation can be gathered only by personal contact.

Social intercourse seems to be a desirable asset in any professional life if one would reap the maximum benefits. To be sure, more emphasis may have been placed upon the above condition of circumstances than may be warranted by a true statement of the facts as they exist within the Society. However, when we realize that one of our chapters has no social activities whatsoever, and that in another, meetings are strictly departmental in character, it would appear perhaps that these two chapters are overlooking one of the essential objects for which Sigma Xi was founded.

THE CHICAGO CHAPTER

The Chicago Chapter held three regular quarterly meetings during the year 1914-15, and tried the policy of starting the evening's festivities in each case with a subsidized dinner at the Quadrangle Club. Since the idea of getting something for nothing seems to appeal as strongly to people of scientific attainments as to the non-scientific, this policy proved to be a distinct success. After dinner a short business meeting was held, at which the new members, previously elected by the electoral board, were initiated and such business as came before the chapter, transacted. This was followed by the formal address of the evening.

At the autumn Quarter meeting on December 5, 1914, Dr. Arthur Gordon Webster, of Clark University, spoke most fascinatingly upon

The Rôle of Chance in Scientific Discovery. The winter Quarter meeting was held on January 20, 1915, at which Professor Jagadis Chandra Bose, of Presidency College, Calcutta, India, gave a very humorous and instructive talk on Plant Autographs and their Revelations. At the spring Quarter meeting on June 1 the chapter elected the following officers for the years 1915-1917:

President, Professor C. J. Herrick.

Vice-President, Professor E. B. Frost.

Secretary-Treasurer, Professor Robert Retzer.

The four-year term of Dr. Julius Stieglitz, as Corresponding Secretary, does not expire till 1917. The chapter also chose an Electoral Board consisting of Professors R. A. Millikan, E. J. Wilczynski, W. D. Harkins, C. M. Child, and F. C. Koch. The address of the evening was given by Professor Thomas Chrowder Chamberlin of the University of Chicago, who spoke on The Birth of the Earth and its Inheritance.

During the year the following have been initiated into the Chapter:

GRADUATE STUDENTS

Carl B. Anderson, S.B., Nebraska, 1912; Fellow in Geology.

Research: Character of Artesian Well Water in Chicago; Underground Water Resources of Northeastern Illinois.

Ada Hart Arlitt, A.B., Tulane, 1913; Fellow in Psychology.

Research: Effect of Alcohol upon Intelligent Behavior of Animals.

Arthur C. Bevan, A.B., Ohio Wesleyan, 1913; Fellow in Geology.

Research: Geology of the New Lexington Quadrangle, South-eastern Ohio.

Denton J. Brown, A.B., Texas, 1910; A.M., Ibid., 1912; Assistant in Chemistry.

Research: Electroanalysis; Peroxide Decompositions.

Frank Emerson Brown, A.B., Kansas Normal College; S.B., Chicago, 1913.

Research: On Surface Tension between Two Liquids.

John William Campbell, A.B., Queen's University, Kingston, Canada, 1912; A.M., Ibid., 1913; Fellow in Astronomy.

Research: On the Stability of Periodic and Non-Periodic Orbits.

Francis Easton Carr, A.B., Oberlin, 1906; S.B., Washington, 1908; A.M., Oberlin, 1912.

Research: The Theory of Precession by Methods of Periodic Orbits.

Elizabeth Caroline Crosby, S.B., Adrian; S.M., Chicago; Fellow in Anatomy.

Research: Laboratory Outline in Neurology; On the Nervous System of the Alligator.

Arthur J. Dempster, A.B., Toronto, 1909; A.M., Ibid., 1910.

Research: On the Mobility of Ions in Air at High Pressure; Ueber die Theorie der Schwarzen Strahlung.

René De Poyen, S.B., Chicago, 1914; Assistant in Chemistry.

Research: The Constitution of Lactose.

Sarah Lucinde Doubt, S.B., Nebraska, 1903; S.M., Chicago, 1908.

Research: Gas Injury to Plants.

Alphaeus W. Dupler, A.B., Juniata College, 1911.

Research: The Morphology of *Taxus Canadensis*.

Clayton H. Eaton, A.B., Nebraska, 1913; Fellow in Paleontology.

Research: On Fossil Mammals.

Oscar Jacob Elsesser, S.B., Chicago, 1913; Research Assistant in Pathology.

Research: The Action of Immune Sera on Vegetable Proteins with particular reference to the Specificity of the Abderholden Reaction.

James Frederick Groves, S.B., Ewing College, 1906.

Research: Evaporation and Soil Moisture; A Method of Prophesying the Life Duration of Seeds.

Harry Ginsberg, S.B., Chicago, 1914; Assistant in Physiology.

Research: The Influence of Blood Transfusion on the Hyperglycemia of Pancreatic Diabetes; The Influence of Late Pregnancy on Pancreatic Diabetes.

Milton Theodore Hanke, S.B., Chicago, 1914; Assistant in Chemistry.

Research: The Constitution of Maltose.

Leo L. J. Hardt, S.B., Chicago, 1914; Assistant in Physiology.

Research: The Relation of the Gastric Digestion Contractions to the Hunger Contractions; Experimental Gastric Ulcers.

Jasper O. Hassler, A.B., William Jewell, 1907; S.M., Chicago, 1913.

Research: Projective Differential Geometry of the Cycloid; Theory of Plane Nets.

Herman Gusavus Heil, Ph.B., Chicago, 1905; Assistant in Physics.

Research: Energies of Impact Necessary to Produce Ionization in case of Sodium and Lithium Vapors.

Lawrence M. Henderson, S.B., St. Olaf's College, 1910; S.M., St. Olaf's College, 1911; Fellow in Chemistry.

Research: The Thorium-Mesothorium Ratio.

Henry L. Huber, Eastern Illinois Normal School, 1909; S.B., Chicago, 1913; Research Assistant in Pathology.

Research: On the Toxicology and Chemotherapy of Certain Copper Compounds.

Henry Reist Kraybill, S.B., Pennsylvania State, 1913; Fellow in Botany.

Research: Some Chemical Changes in the Resweating of Tobacco.

Towner R. Leigh, S.B., Iuka College, 1901; A.B., Lebanon, 1902; Fellow in Chemistry.

Research: On Chlorimides.

Millard S. Markle, S.B., Earlham, 1910.

Research: Development of Reproductive Organs in Coleochaete; Studies on the Vegetation of New Mexico.

Carl Richard Moore, S.B., Drury College, 1913; A.M., *Ibid.*, 1914; Fellow in Zoölogy.

Research: Superposition of Fertilization on Parthenogenesis.

Raymond Cecil Moore, A.B., Dennison, 1913; Fellow in Geology.

Research: Study of Lance and Fort Union Stratigraphy and Paleontology, Western North Dakota and Eastern Montana; Glacial Geology and Stratigraphy, Mankato District, Minnesota.

Raymond D. Mullinix, S.B., Chicago, 1913; Associate in Chemistry.

Research: The Spontaneous Decomposition of Aluminate Solutions.

Mildred Nothnagel, A.B., Indiana, 1913.

Research: First Mitosis of Pollen Mother Cells of *Allium cernuum*, Roth; Monroe County Mosses, I, II, III.

Jeanette Brown Obenchain, Ph.B., Chicago; Research Assistant in Neurology.

Research: On the Brain of the Lamprey.

William Tudor Pearce, A.B., Randolph-Macon College, 1910; S.M., Kentucky 1912. Assistant in Chemistry.

Research: The Precipitation of Sulphuric Acid in the Presence of Thorium; The Solubility of Strontium Bromide in Strontium Nitrate; The Solubility of $K_4Fe(CN)_6$ in $Na_4Fe(CN)_6$.

Charles Frank Phipps, S.B., Wesleyan, 1906; S.M., Chicago, 1914; Instructor in Zoölogy, School of Education, University of Chicago.

Research: An Experimental Study of Amphipods with respect to Light Intensity, Direction of Rays and Metabolism.

Samuel Watson Reaves, S.B., North Carolina, 1899; A.B., Cornell, 1900; A.M., Chicago, 1912; Professor of Mathematics, University of Oklahoma.

Research: On the Projective Differential Geometry of Plane Anharmonic Curves; Theory of Ruled Surfaces.

Edith Adelaide Roberts, A.B., Smith, 1905; Instructor in Botany, Mt. Holyoke.

Research: Plant Succession of the Holyoke Range; Distribution of Beach Plants; On the Experimental Morphology of Root Hairs.

Willard Allen Roberts, S.B., Earlham, 1911.

Research: On the Structure of the Cobaltammines.

Fred T. Rogers, S.B., Baylor University, 1911; A.M., Ibid., 1914; Fellow in Physiology.

Research: The Gastric Hunger Contractions in the Rabbit.

Homer C. Sampson, S.B., Chicago, 1914.

Research: Methods in Atmometry; Studies in Physics of Soil Water; An Ecological Study of Prairies.

Oscar William Silvey, A.B., Indiana, 1907; A.M., Ibid., 1910; Instructor in Physics.

Research: An Investigation of a Point Discharge in Electric and Magnetic Fields.

Le Roy Hendrick Sloan, S.B., Chicago, 1914; Assistant in Physiology.

Research: Quantitative Estimation of the Protolytic Enzymes in the Blood.

Pauline Sperry, A.B., Smith, 1906; A.M., Ibid., 1908; A.M., Chicago, 1914; Instructor in Mathematics Smith College.

Research: On the Theory of a one to two Correspondence with Geometrical Illustrations; On a Certain Class of Curves on Surfaces.

Thomas Russell Wilkins, A.B., McMaster, 1912.

Research: The Specific Heat of Tungsten at High Temperatures.

Kono Yasui, Tokyo College for Women.

Research: Life-history of *Salvinici natans*; Morphology of *Azolla*.

The active membership of the Chapter at the present time numbers 183. ROLLIN T. CHAMBERLIN, *Recording Secretary*.

THE MISSOURI CHAPTER

The chapters at the Universities of Kansas and Missouri unite each year to secure a series of two or three lectures at each institution. These annual lectures were delivered in November, 1914, by Professor Joseph Barrell of Yale University. The general title was, The Bearing of Geology on Man's Place in Nature.

Dean E. J. McCaustland of the School of Engineering addressed the Society in March, 1915, on Problems of Sewage Disposal.

Heretofore, the Society has dispensed with scientific meetings other than the open ones of spring and fall, because that function was performed by a general scientific association. With the decline of that somewhat unwieldy organization, the executive committee has recently outlined a policy of frequent addresses by members on the subjects of their investigations.

The following new members were initiated in May, 1915:

FACULTY

Oliver Ray Johnson, B.S. in Agr., A.M., University of Missouri, Assistant Professor of Farm Management. Distribution of Farm Labor; Land Tenure; The Relation of the Size of the Farm Business to Farm Profits: Research Bulletins, Agr. Exper. Sta.

GRADUATE STUDENTS

- Everett E. Butler, A.B., '14, A.M. '15. Pathology. An Anatomical Analysis of the Effects of Ether Anesthesia on the Nerve Cell: Thesis for the Master's degree (ready for publication).
- John M. Carter, A.B., '14, A.M., '15. Physiology. The Correlation between the Lipase and Fat Content of the Liver in Different Stages of Nutrition: Thesis for the Master's degree.
- J. P. Connolly, A.B., Oberlin, '12, A.M., Missouri, '15. Geology. The Chouteau Limestone in Eastern Missouri: Thesis for the Master's degree.
- Carl M. Greene, A.B., '14, Graduate Student, '15. Physiology. (With C. W. Greene) The Skeletal Musculature of the King Salmon: Bull. U. S. Bur. Fisheries, Vol. 33, pp. 19-60; The Irritability of Muscle under Variations of Temperature (ready for publication).
- F. L. Hisaw, A.B., '14. Zoölogy. The Ecology of Aquatic Insects of Carter Creek, Colo. (in progress).
- E. A. Martin, A.B., '14, Zoölogy. Development of the Fresh Water Mussel *Straphitus edentulus* (in progress).

- C. E. Neff, B.S. in Agr., '14, A.M., '15. Farm Crops. Some Correlation Studies in Maize: Thesis for the Master's degree.
- E. E. Nelson, A.B., Drury College, '14. Zoölogy. Studies in Cytology (in progress).
- O. I. Oshel, B.S. in Agr., Kansas State Agriculture College, A.M., Missouri, '15. Research Scholar in Dairy Husbandry. Silage Investigations: Thesis for the Master's degree.
- L. S. Riford, B.S., '14, New Hampshire State College A.M., Missouri '15. Research Scholar in Dairy Husbandry. A study of Protein Requirements for the Growth of Animals: Thesis for the Master's degree.
- Julia Spalding, B.S. in Ed., '10, A.M., '15. Mathematics. On Certain Functions of a Complex Variable: Thesis for the Master's degree.
- William S. Summers, A.B., '14, A.M., '15. Physiology. The Correlation between the Lipase and Fat Content of the Blood in Different Stages of Nutrition: Thesis for the Master's degree.
- Thomas F. Wheeldon, A.B., '14, A.M., '15. Anatomy. The Heart of the 20mm. Pig Embryo: Thesis for the Master's degree (in press).

D. H. DOLLEY, *Secretary*.

THE SYRACUSE CHAPTER

During the academic year 1914-15, the Syracuse Chapter has held nine meetings. Five of these were open meetings at which lectures were given, two by our own members, and three by distinguished members of other chapters. The interest shown in these open meetings by both students and townspeople, was very gratifying.

The list of meetings and of speakers follows:

October 2: Report by F. A. Harvey on the Rutherford lectures before the National Academy of Science; Report by E. D. Roe, Jr., on the meeting of the American Mathematical Society at Brown.

November 6: Research reports by members as follows: E. C. Day, Electric Currents Generated in the Eye by Light, and L. H. Pennington, Studies of Forest Fungi.

November 10: Open meeting, lecture by F. P. Knowlton, M.D., Director of the Physiological Laboratory, Syracuse University, Hunger and Allied Phenomena.

November 17: Open meeting, lecture by H. A. Peck, Ph.D., Professor of Astronomy, Syracuse University, Recent Theories of the Siderial Universe.

December 15: Open meeting, lecture by G. N. Stewart, M.D., Professor of Experimental Medicine, Western Reserve Medical School, The Physiologist in the Hospital and in the State.

February 5: Open meeting, lecture by John A. Mathews, Operating Manager of the Halcomb Steel Co., Iron in Antiquity and Today.

March 5: Open meeting, lecture by H. S. White, Ph.D., Professor of Mathematics, Vassar, Mathematics in the Science of the Nineteenth Century.

April 9: Research Reports from new members; titles given in the list of elections.

May 7: Annual reports of officers and annual election of officers.

The following were received into the chapter during the year:

FACULTY

Oliver W. H. Mitchell, Director of the Bacteriological Laboratory, affiliated from the Missouri Chapter.

Harry Philip Brown, Assistant Professor of Forest Botany, affiliated from the Cornell Chapter.

Loren Clifford Petry, Instructor in Botany, affiliated from the Chicago Chapter.

Robert Richard Tatnall, Professor of Physics, affiliated from the Northwestern Chapter.

Charles Christopher Adams, Assistant Professor of Forest Zoölogy, affiliated from the Illinois Chapter.

Ralph Rayburn Simmons, Instructor in Bacteriology, affiliated from the Missouri Chapter.

Louis Max Hickernell, Instructor in Zoölogy; Research, Desiccation of some Invertebrate Animals.

Charles Ruglas Hoover, Assistant Professor of Chemistry; Research, Atomic Weight Determinations.

Henry Neely Jones, Assistant Professor of Bacteriology; Research, The Bovine Bacillus Abortus.

James Fred Baker, Director of Forest Investigations; Research, numerous investigations in National Forest Reserves.

GRADUATE STUDENTS

Abraham Clement Silverman, Graduate Student in Physiology; Research, Gaseous Metabolism in the Kidneys.

H. A. CLARK, *Secretary*.